

A Report on One Day Workshop on
“Recent Trends in Generative AI and Robotics”
Organized by Department of CSE- Artificial Intelligence
in Association with IEEE – RAS Student Chapter
on 15.04.2025



Report Submitted by: Mr. K. Mahammad, Assistant Professor, Department of CSE- Artificial Intelligence.

Resource Person Details: Mr. D. Srinivasulu Reddy, Scientist D, CAIR, DRDO, Bengaluru.

Venue: Seminar Hall-A

Participants: 65 (UG Students)

Time: 10:00 AM to 4:00 PM

Mode of Conduct: Offline

Department of Artificial Intelligence in association with MITS IEEE RAS Student Branch Chapter organized a one-day workshop on “Recent Trends in Generative AI and Robotics” in Seminar Hall-A on April 15th, 2025, from 10:00 A.M. onwards.

The session commenced with a warm welcome address by Dr. Chokkanathan K, Head of the Department, CSE (AI). Following this, Dr. Ramanathan P, Vice Principal (Academics) addressed the gathering and explained the importance of the event, then resource person, Mr. D. Srinivasulu Reddy, Scientist D, CAIR, DRDO, Bangalore began by extending his heartfelt appreciation to the participants, the organizing team, the Head of the Department, the Principal, and the Management of MITS Madanapalle for providing him with the platform to share his insights on **Generative AI and Robotics**.

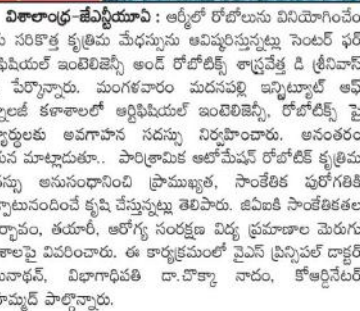
The first session focused on Generative AI, beginning with an overview of how models like GANs (Generative Adversarial Networks), VAEs, and diffusion models are transforming the way machines create data. The speaker elaborated on various tools such as ChatGPT, DALL-E, and Stable Diffusion, which are revolutionizing content generation across industries. Participants were introduced to use cases in art, design, simulation, and media. Ethical aspects, including AI-generated misinformation and bias, were also discussed. A live demonstration of text-to-image generation kept the session interactive and informative, sparking curiosity and dialogue among attendees.

In the second session, the focus shifted to Robotics and AI integration, highlighting how intelligent algorithms are enhancing robotic capabilities. The session introduced participants to simulation environments like ROS2 and Gazebo and explained how these platforms are used in research and development. Concepts of real-time object detection and robot vision were demonstrated using OpenCV and Python. The resource person also explained the role of control systems and inverse kinematics in robot movement. A live face and object recognition demo gave the audience hands-on exposure to how AI and robotics converge in practical applications, making the session highly engaging and impactful.

The expert talk concluded with an engaging Q&A session, where participants had the opportunity to ask questions and gain further insights from the resource person. The event ended with a vote of thanks delivered by Mr. Mahammad K, Asst.Prof, Dept. of CSE(AI) expressing appreciation for the resource person and participants for contributing to a successful and informative session.



ఆర్థిలో రోబో వినియోగించేందుకు
సరికొత్త కృత్రిమ మేధస్సు



**"అర్జునిశ్చయల్ ఇంబొజెన్స్ అండ్ రోబోటిక్స్ లో..
ఇటీవలి ట్రెండ్స్" పై మిల్స్ వర్క్ షాప్ నిర్వహణ...**



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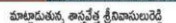
రోబోలకు శిక్షణ.. ఆర్టిలో
వినియోగంపై 'మిట్ట'లో వర్క్ షాపు



ಪೊದಗಿಸಿರುವ ಬಾಲ್ಯದ ದಿನಗಳನ್ನು ನೆನಪಿಸುತ್ತಿರುವುದು.



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Date : 16/04/2025 EditionName : ANDHRA PRADESH(ANNAMAYYA) PageNo

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**ಅಭಿಷೇಕಿಯಲ್ ಆಂಟಿವಿಡೆನ್ಸ್, ಅಂಡ್ ರೆಸೆಪ್ಶನ್ಸ್ ಲೇ ವರ್ತಮಾನ
ಬ್ರೆಂಡ್ಸ್ ಪ್ಲೆ ಮಿಟ್ ಕಳಾ-ಕಾಲ ಲೇ ವರ್ಕ್ಸ್‌ಷಾಪ್**

